

IN THE CLAIMS

Please amend the claims as indicated by the amended claim set below.

1. (Original) A deformable medical implant, comprising:
 - a body defining at least two anchor points, which body is adapted to be deformed so that the two anchor points are moved relative to each other;
 - at least two elongate extensions, each extension fixed to one anchor point;
 - a bridge coupling at least two of said extensions to each other; and
 - at least two hinges defined on at least one of said extensions, two of said at least two hinges having different preferred bending directions and being defined on one extension.
2. (Original) An implant according to claim 1, wherein said two elongate extensions each comprise a plurality of hinges.
3. (Original) An implant according to claim 2, wherein the hinges on said one elongate extension are a mirror of the hinges on the other, coupled, extension.
4. (Original) An implant according to claim 2, wherein the hinges on said one elongate extension have different axial locations than corresponding hinges a second, coupled, elongate extension.
5. (Currently Amended) An implant according to claim 2 or ~~claim 4~~, wherein at least one of the hinges on said one elongate extension has a hinge bending direction different from corresponding hinges a second, coupled, elongate extension.
6. (Currently Amended) An implant according to ~~claim 2~~ any of claims 2, 4 or 5, wherein at least one of the hinges on said one elongate extension has a resistance to bending different from corresponding hinges a second, coupled, elongate extension.
7. (Original) An implant according to claim 1, wherein only one of said at least two elongate extensions comprises a plurality of hinges.

8. (Currently Amended) An implant according to ~~claim 1 any of claims 1-7~~, wherein at least two of said plurality of hinges have bending axes that are oblique to a device plane of said body, said device plane being a substantially two-dimensional mathematical surface conforming to the general geometry of the device.
9. (Currently Amended) An implant according to ~~claim 1 any of claims 1-7~~, wherein at least one of said plurality of hinges has a preferred bending direction in a device plane of said body, said device plane being a substantially two-dimensional mathematical surface conforming to the general geometry of the device.
10. (Original) An implant according to claim 9, wherein at least one of said plurality of hinges has a preferred bending direction perpendicular to a device plane of said body, said device plane being a substantially two-dimensional mathematical surface conforming to the general geometry of the device.
11. (Currently Amended) An implant according to ~~claim 1 any of claims 1-10~~, wherein said hinges are arranged to cooperate with said bridge to bend said extensions in a direction including a component perpendicular to a device plane of said body, when said anchor points are moved apart, said device plane being a substantially two-dimensional mathematical surface conforming to the general geometry of the device.
12. (Original) An implant according to claim 11, wherein said hinges are arranged to bend at least one of said extensions at at least two points, in different directions.
13. (Original) An implant according to claim 11, wherein said hinges are arranged to bend said extensions at least 45 degrees away from said device plane.
14. (Original) An implant according to claim 11, wherein said hinges are arranged to bend said extensions at least 80 degrees away from said device plane.
15. (Original) An implant according to claim 11, wherein said hinges are arranged to bend said extensions at least 90 degrees away from said device plane.

16. (Original) An implant according to claim 11, wherein said hinges are arranged to bend said extensions at least 120 degrees away from said device plane.
17. (Currently Amended) An implant according to ~~claim 1any of claims 1-16~~, wherein at least one of said hinges comprises cuts in said extension.
18. (Currently Amended) An implant according to ~~claim 1any of claims 1-17~~, wherein at least one of said hinges comprises a weakening in a position along said extension.
19. (Currently Amended) An implant according to ~~claim 1any of claims 1-18~~, wherein at least one of said hinges comprises a bore in said extension.
20. (Currently Amended) An implant according to ~~claim 1any of claims 1-19~~, wherein said extensions extend axially away from said body, prior to moving apart of said anchor points.
21. (Currently Amended) An implant according to ~~claim 1any of claims 1-19~~, wherein said extensions extend axially towards said body, prior to moving apart of said anchor points.
22. (Currently Amended) An implant according to ~~claim 1any of claims 1-21~~, wherein said bridge is defined at an end of said extensions.
23. (Currently Amended) An implant according to ~~claim 1any of claims 1-22~~, wherein said bridge is deformable.
24. (Original) An implant according to claim 23, wherein said bridge is more resistant to bending than said hinges.
25. (Currently Amended) An implant according to ~~claim 1any of claims 1-24~~, wherein said hinges are plastically deformable.

26. (Currently Amended) An implant according to claim 1~~any of claims 1-25~~, wherein said plurality of hinges comprise at least three hinges on a single extension.
27. (Currently Amended) An implant according to claim 1~~any of claims 1-26~~, wherein said body is cylindrical.
28. (Currently Amended) An implant according to claim 1~~any of claims 1-27~~, wherein said implant is adapted for implanting in a blood vessel.
29. (Currently Amended) An implant according to claim 1~~claims 1-28~~, wherein said implant is a stent.
30. (Original) An implant according to claim 29, comprising a plurality of extensions such that said plurality of extensions define a flared section for said stent.
31. (Original) An implant according to claim 30, wherein said flaring is symmetric.
32. (Original) An implant according to claim 30, wherein said flaring has an axis that is at an angle to an axis of said stent.
33. (Original) An implant according to claim 30, wherein said flaring comprises a coupling between different extensions such that a flaring angle at one side of the flare compensate for a flare angle at another side of the flare.
34. (Original) An implant according to claim 30, wherein said flaring is defined on a side of said stent.
35. (Original) An implant according to claim 34, wherein said flaring has an axis generally perpendicular to an axis of said stent.
36. (Original) An implant according to claim 34, wherein said flaring is generally cylindrical.

37. (Currently Amended) An implant according to claim 1 ~~any of claims 30-36~~, wherein said stent is a mesh stent.

38. (Original) An implant according to claim 37, wherein said flared section is a mesh.

39. (Original) A method of distorting a medical implant structure having two extensions coupled at a point thereof, comprising:

changing the relative position of two points on said extensions that are distanced from said coupling point;

transforming, using a plurality of pre-defined hinges, tension forces applied by said changing into forces that bend said structure in a plane outside of a plane defined by said changing and by at least a planar portion of said extensions.

40. (Original) A method according to claim 39, wherein said structure is cylindrical.

41. (Original) A method according to claim 40, wherein said changing is applied by radially expanding said cylindrical structure.

42. (Currently Amended) A method according to claim 40-~~or claim 41~~, wherein transforming comprises flaring out said extension to more than 50 degrees relative to an axis of said cylinder.

43. (Original) A method according to claim 42, wherein said flaring includes a change in angle relative to said axis, along said extensions.

44. - 57. (Cancelled)